12/3/2018

Purchasing Receipts

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200 Fax 613 632-5246

Supplier Name	\$91.19 McMaster- Carr Supply Co,	\$40.18 McMaster- Carr Supply Co,	\$18.84 McMaster- Carr Supply Co,	\$7.00 McMaster- Carr Supply Co,	\$30.82 McMaster- Carr Supply Co,	haster- oly	\$34.65 McMaster- Carr Supply Co,	
S	McMas Carr Supply Co,	McMasi Carr Supply Co,	McMast Carr Supply Co,	McMast Carr Supply Co,	McMast Carr Supply Co,	McMast Carr Supply Co,	McMasi Carr Supply Co,	
Total	\$91.16	\$40.18	\$18.84	\$7.00	\$30.82	\$436.97 McMaster- Carr Supply Co,	\$34.65	\$659.65
Past Due								
Aging Days	0	0	0	0	0	0	0	
Receive Price/Unit Aging Past	\$ 1.82 / ft	\$ 0.80 / 11	12/3/2018 \$ 0.63 / Ea	\$ 0.14 / Ea	\$ 5.14 / ft	\$ 145.66 / ft	12/3/2018 \$ 2.31 / Ea	
Receive Date	Inactive 12/3/2018 \$ 1.82 / ft	12/3/2018 \$ 0.80 / ft	12/3/2018	12/3/2018	12/3/2018 \$ 5.14 / ft	12/3/2018	12/3/2018	
Status	nactive	Stock	Stock	Stock	Stock	Stock	Stock	
	\$134204	S134207	S134208	\$134209	S134211	S134212	\$134210	
Received Accounting Container Quantity Job No No								
Received	50	50	30	20	9	М	15	204
Due Date	50 12/4/2018							
Order Qty	20		30	20	0	ю	15	204
Equipment Order ID Qty								Total:
Project								
Part No								
Purchased Description Part Project Equi	Velcro Hook & Loop Color: Black	Heat Shrink Tubing Color Black receive pcs	SS Helical Insert #5-40 x 1/4"" Lg.	SS Socket Head Cap Screw #5-40 x 1/2"" Lg.	Tool Steel Round Bar 0.625 dia.	AISI 01 TOOL STEEL BAR 0.500"" High X 12.000"" Wide	Bolt 5*1/2	
	9273K42	7856K75	91732A704	92185A136	MT-01- R0.625	0.500X12.000 STEEL BAR 0.500X12.010 STEEL BAR 0.500"" High 12.000" Wid	8NR-74	
Terms	1 2% 10 Net 30							
Rel	-							
Line Item No	-	2	m	4	S	9	7	
PO No Supplier Item No No No	MCM001- VU							
PO No	PO041892 MCM001-							

Plex 12/3/2018 4:04 PM Dart.Belanger.Natasha



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON **K6A 1K7** Canada

PURCHASE ORDER PO041892

Tel (613) 632-5200

Supplier:

MCM001-VU

McMaster-Carr Supply Co,

P.O. Box 7690

Chicago, IL 60680-7690 USA

Phone: 330 995 5500

Fax: 330 995 9600

PO No:

PO041892

PO Date:

11/29/18

Due Date:

12/4/18

Purchase Order

Revision:

Revision Date: Ship-To Contact:

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada

Phone: 613-632-5200

Via:

Ground

Pymt Terms: 2% 10 Net 30

Freight Terms:

						Special (Commen	ts:				
					Ite	ms						
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
	187201	9273K42	50 ft	Velcro Hook & Loop Color: Black		-V-saven a	12/4/18 DEC 0 3	50 ft 2018 d	& Oft	50 ft	\$1.8238/ft	\$91.19
ne Item Note	as per c	wg D4730 RE	V. B	and determine a company of the second	1 ⁹ w . m	V	done we see	/8				
(2)	And State of State and Andrews Control of State	7856K75	color black 25 ft	Heat Shrink Tubing Color Black receive pcs			12/4/18	50 ft	0 ft	50 ft	\$0.8036/ft	\$40.18
(3)		91732A704	10/pk	SS Helical Insert #5-40 x 1/4" Lg	Firmed	- DEC 03	12/4/18 2018	30 Ea	0 Ea	30 Ea	\$0.628/Ea	\$18.84
4		92185A136	50/pk	SS Socket Head Cap Screw #5- 40 x 1/2" Lg.	Firmed	0 3 20	12/4/18	50 Ea	0 Ea	50 Ea	\$0.14/Ea	\$7.00
(5)		MT-O1- R0.625	8893K9 6 FT	Tool Steel Round Bar 0.625 dia.	Firmed 68	+ × 1	12/4/18 DEC 0 3	2018	S of	6 ft	\$5.1366666/ft	\$30.82
6		MT-O1-B- 0.500X12,000	i	AISI 01 TOOL STEEL BAR 0.500" High X 12.000" Wide	Firmed 3	-	12/4/18 EC 03	3 ft	9 of	3 ft	\$145.65666/ft	\$436.97
7	di contacti care	8NR-74	91257A755 1/pk	Bolt 5*1/2	Firmed	- and all	12/4/18	15 Ea	0 Ea	15 Ea	\$2.31/Ea	\$34.65
			1	15K	el 03	20183 4	IX			1	Grand Total:	\$659.65



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO041892

Tel (613) 632-5200

Order Notes

Procurement Quality Clauses A005 RIGHT OF ENTRY A016 PERSONNEL QUALIFICATION A026 CERTIFICATION OF MATERIAL CONFORMANCE A032 DOCUMENT SPECIAL REQUIREMENTS A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 11/29/18 2:51 PM dart.lavoie.chantal



Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO041892

Order Placed By Chantal Lavoie

McMaster-Carr Number 4679988-02

Page 1 of 1 11/29/2018

Line

8893K9

Prøduct

right-Tolerance Multipurpose O1 Tool Steel Rod, 0.6250" Diameter, 6 Feet Long

Ordered Shipped

Each



Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com

9516K527

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

Purchase Order PO041892

4679988-01

Order Placed By

Chantal Lavoie McMaster-Carr Number Page 1 of 1 11/29/2018

Line

Product

Tight-Tolerance Multipurpose O1 Tool Steel Bar, 1/2" Thick, 12" Wide, 3 Feet Long

Ordered Shipped

Each

237



Packing List

200 Aurora Industrial Pkwy Aurora OH 44202-8087 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO041892

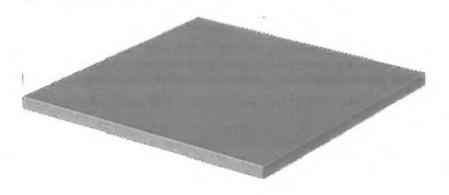
Order Placed By Chantal Lavoie Page 1 of 1 11/29/2018

McMaster-Carr Number 4679988-03

Line		Prøduct	Ordered	Shipped /
1	9273K42	Hook and Loop with Adhesive Backing, 1-1/2" Wide x 50 Feet Long, Black	1 Each	. 10
2	7856K75	Heat-Shrink Tubing, 25 Feet Long, 0.25" ID Before Shrinking, Black	2 Each	2
3	91732A704	18-8 Stainless Steel Helical Insert, 5-40 Right-Hand Thread, 0.250" Long, Packs of 10	3 Packs	3
4	92185A136	Super-Corrosion-Resistant 316 Stainless Steel Socket Head Screw, 5-40 Thread Size, 1/2" Long, Packs of 50	1 Pack	1
7	91257A755	i Zinc Yellow-Chromate Plated Hex Head Screw, Grade 8 Steel, 1/2"-20 Thread Size, 5" Long, Partially Threaded, Packs of 1	15 Packs	

Tight-Tolerance Multipurpose O1 Tool Steel Bar 1/2" Thick, 12" Wide

\$436.97 Each 9516K527



Material	O1 Tool Steel
Cross Section	Rectangle
Shape	nectarigle
Construction	Solid
Appearance	Plain
Thickness	1/2"
Thickness	-0.001" to 0.001"
Tolerance	~0.001 (0 0.001
Tolerance Rating	Tight
Width	12"
Width Tolerance	0" to 0.015"
Yield Strength	50,000 psi
Temper Rating	Not Rated
Hardness	Rockwell B85
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical Finish	Precision Ground
Temperature	Not Rated
Range	Not nated
Specifications Met	ASTM A681
Flatness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	7.1 × 10 ⁻⁶
Elongation	25%
Material	
Composition	94.79-96.95%
Carbon	0.85-1.05%
Chromium	0.40-0.70%
Manganese	1.00-1.40%
Nitrogen	0.40-0.60%
Phosphorus	0-0.030%
	5 5.55575
Silicon	0-0.50%
Silicon Sulfur	0-0.50% 0-0.030%
Sulfur	0-0.030%
Sulfur Tungsten	0-0.030% 0.40-0.60%

Additional Specifications

Guidelines for Heat Treating Tool Steel

RoHS

Not Compliant

These precision-ground sheets and bars have a tight thickness tolerance of ± 0.001 " (± 0.05 mm). Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion. Sheets and bars are also known as flat stock.

BY APPROVED D D SPECIFICATION CONTROL DRAWING PURCHASE MATERIAL: AISI O1 TOOL STEEL BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681 SPECIFICATION: MT-01-B-[H.HHH]x[W.WWW] WHERE "H.HHH" = HEIGHT IN INCHES WHERE "W.WWW" = WIDTH IN INCHES PART NUMBER: EG. 4"x6" BAR = MT-O1-B-4.000x6.000 TOLERANCES PER MANUFACTURER SPECIFICATIONS DART AISI O1 TOOL STEEL BAR | DEBOON BY: VAL 69/2017 | 200 x 3 ms FACTOON 8 1 ms ON 1 ms FACTOON 8 1 ms ON 1 ms FACTOON 8 1 ms ON MT-01-B EW 17 - 649

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e (- * ·

Tight-Tolerance Multipurpose O1 Tool Steel Rods



· Yield Strength: 50,000 psi

· Hardness: Rockwell B90 (Medium)

· Heat Treatable: Yes

· Max. Hardness after Heat

Treatment:

Inch sizes: Rockwell C65 Metric sizes: Rockwell C62

· Specifications Met: ASTM A681

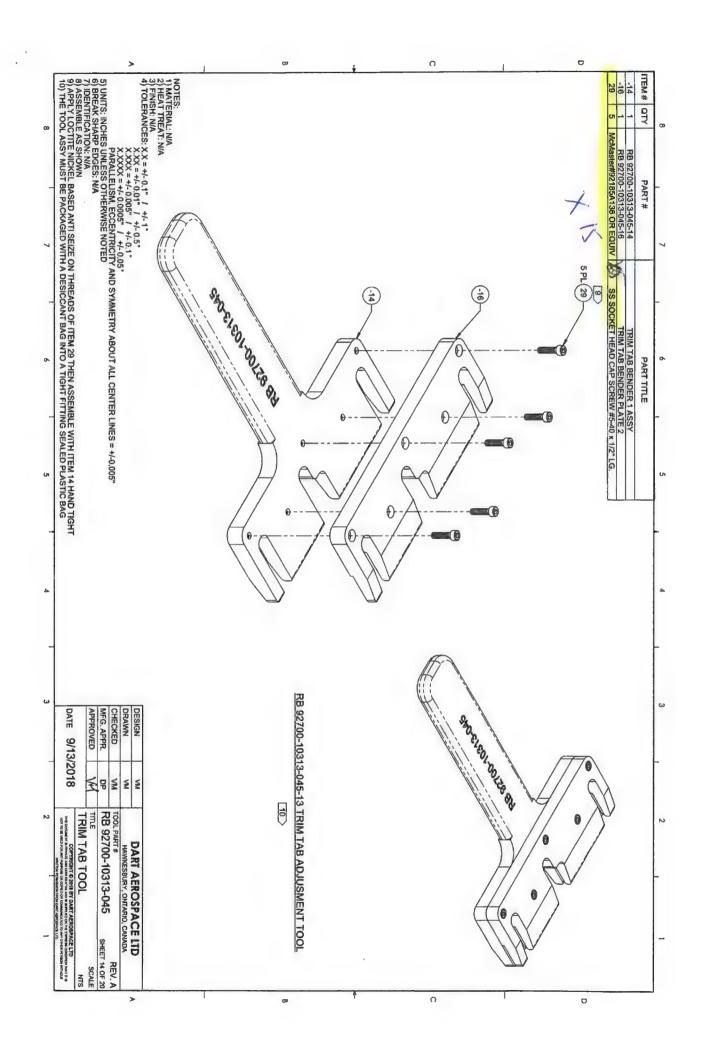
These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion.

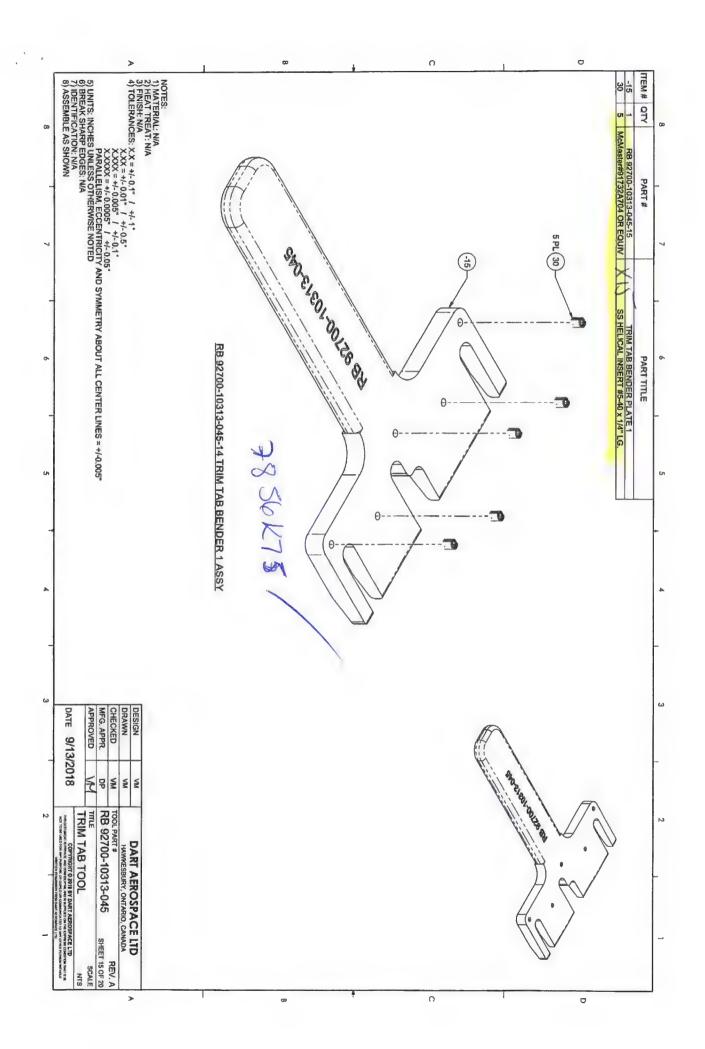
Dia.	Dia. Tolerance	Temper Rating	Mechanical Finish		1 ft. Lg.	3 ft. Lg.	6 ft Lg
0.625"	-0.001" to 0.001"	Softened (Annealed)	Precision Ground	8893K9	\$9.25	\$16.95	\$30.82
0							
Produ	ct Detail						
Tight- Diam		pose O1 Tool Steel Roo	I, 0.6250"				
Guide	lines for Heat Treating	g Tool Steel					
Lengi	h, ft.						
√ .6							
	Each						
ADD	TO ORDER						
Delive 10-12	ers tomorrow ! pm						

۵ BY APPROVED AISI O1 TOOL STEEL ROUND BAR ΑM MT-01-R DATE DESCRIPTION NEW ISSUE ECN 17-1,49 ಣ REV. MT-01-R [D.DDD] WHERE "D.DDD" = DIAMETER IN INCHES SPECIFICATION CONTROL DRAWING EG. 5/8" ROUND BAR = MT-01-R0.625 AISI O1 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681 PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: ø

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Tight-Tolerance Multipurpose O1 Tool Steel Rod 0.6250" Diameter

8893K9



Material O1 Tool Steel Cross Section Round

Shape

Construction Solid Appearance Plain Diameter 0.625"

Diameter

-0.001" to 0.001" Tolerance

Tolerance

Rating

Yield Strength

50,000 psi

Tight

Temper

Rating

Softened (Annealed)

Hardness

Hardness

Rating

Medium

Heat

Treatable

Yes

Maximum Hardness after Heat Rockwell C65

Rockwell B90

Treatment Mechanical

Finish

Precision Ground

Temperature

Range

Not Rated

Specifications

Met

ASTM A681

Straightness

Not Rated

Tolerance

Density 0.28 lbs./cu. in.

Coefficient of

Thermal

 7.1×10^{-6}

Expansion

Elongation

25%

Material Composition

> Iron 94.79-96.95% Carbon 0.85-1.05% Chromium 0.40-0.70%

 Manganese
 1.00-1.40%

 Nitrogen
 0.40-0.60%

 Phosphorus
 0-0.030%

 Silicon
 0-0.50%

 Sulfur
 0-0.030%

 Tungsten
 0.40-0.60%

 Vanadium
 0-0.30%

Length 1 ft., 3 ft., 6 ft.

Additional Guidelines for Horizontal Specifications Treating Tool Storage

RoHS Compliant

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges. Of tool steel is an oil-hardening material that resists wear and abrasion.

| OESCHED. | VM 8/8/2017 | VM | SHACHOME 1/17 | VM | SHACHOME | SHACHO AISI O1 TOOL STEEL ROUND BAR ey vm MT-01-R DESCRIPTION DN-1-149 REV. MT-01-R [D.DDD] WHERE "D.DDD" = DIAMETER IN INCHES EG. 5/8" ROUND BAR = MT-01-R0.625 SPECIFICATION CONTROL DRAWING PURCHASE MATERIAL: AISTO TOOL STEEL FOUND BAR DIN 1,2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 of ASTM A681 SPECIFICATION: PART NUMBER: 8

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MATERIAL RECEIPT INSPECTION FORM

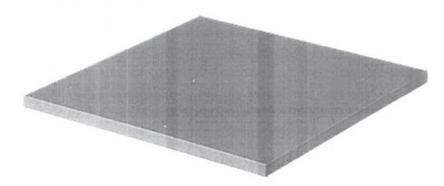
MATERIAL CERT REC'D:							
OLIANITI V RECEIVED: / / /				5"			
				THICK	NESS RECEIV	/ED: 0.61	5
QUANTITY INSPECTED: 614				SHEET	SIZE ORDER	RED:	
QUANTITY REJECTED:				SHEET	SIZE RECEIN	/ED:	
	NC	'P					
DESCRIPTION (eck			COMMENT	S	
SURFACE DAMAGE	Y	(N)					
CORRECT FINISH (Y	Ν					
CORROSION	Y						
	Υ	N					
	V	Ν	OI TOOL	STEEL	4 ASTM	A681	
	Y)	Ν					
	Υ						
	4)	Ν	10041942				
	8	N					
CORRECT M# ON THE MATERIAL	P	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(2)					
						00.01150	
CUT SAMPLE PIÈCE			ERIAL AND PRE PRD RESULTS B		A HARDNES	S CHECK.	
			HRC HR	RB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READING	G						

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
	DAS	
INSPECTED BY:	6.20	SIGNED OFF BY:
DATE:	(8/12/03	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Tight-Tolerance Multipurpose O1 Tool Steel Bar 1/2" Thick, 12" Wide

9516K527



Material /	O1 Tool Steel
Cross Section	Rectangle
Shape	nectangle
Construction	Solid
Appearance	Plain
Thickness	1/2"
Thickness	-0.001" to 0.001"
Tolerance	-0.001 10 0.001
Tolerance	Tight
Rating	ngnt
Width	12"
Width	0" to 0.015"
Tolerance	0 10 0.015
Yield Strength	50,000 psi
Temper Rating	Not Rated
Hardness	Rockwell B85
Hardness	Medium
Rating	Wediani
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical	Daniel o
Finish	Precision Ground
Temperature	Not Rated
Range	Not hateu
Specifications	ASTM A681
Met	A311VI A001
Flatness	Not Rated
Tolerance	Not hated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	7.1×10^{-6}
Elongation	25%
Material	
Composition	
Iron	94.79-96.95%
Carbon	0.85-1.05%

0.40-0.70% Chromium 1.00-1.40% Manganese Nitrogen 0.40-0.60% Phosphorus 0-0.030% Silicon 0-0.50% Sulfur 0-0.030% Tungsten 0.40-0.60% Vanadium 0-0.30%

Length 1 1/2 ft., 3 ft., 6 ft.

Additional Guidelines for Heal

Specifications Treating Tool Steel

These precision-ground sheets and bars have a tight thickness tolerance of ± 0.001 " (± 0.05 mm). Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion. Sheets and bars are also known as flat stock.

APPROVED DART IMMEDIAL COLO. COLOR WW AISI 01 TOOL STEEL BAR NA 84 MT-01-B DATE 17.08.09 でいり-129 DESCRIPTION NEW ISSUE TOLERANCES PER MANUFACTURER SPECIFICATIONS REV. MT-01-8-[H.HHH]x[W.WWW] WHERE "H.HHH" = HEIGHT IN INCHES WHERE "W.WWW" = WIDTH IN INCHES EG. 4"x6" BAR = MT-O1-B-4,000x6,000 SPECIFICATION CONTROL DRAWING DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681 AISIO1 TOOL STEED BAR PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: 00

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-8 DATE: 18/12/	B-U	0.500xl	2.000	PO / B	ATCH NO	:: <u>[0041</u>	892/513421			
MATERIAL CERT REC'D:				TH	HICKNESS (ORDERE	0.500			
QUANTITY RECEIVED: 344				TH	THICKNESS RECEIVED: 0. 500"					
QUANTITY INSPECTED: 344				SH	HEET SIZE (ORDEREC)			
QUANTITY REJECTED:					EET SIZE F			-		
QUANTITI NESECTES.				OI.	ILLI SIZLI	CCCIVEL				
		CR								
DESCRIPTION	•	eck			COM	MENTS				
		N)								
SURFACE DAMAGE	Y	(10)								
CORRECT FINISH	Y	N								
CORROSION CORRECT GRAIN DIRECTION	W	N								
CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING	D	N	01-	-, (-	(T.F.)	1000	1501			
CORRECT THICKNESS	D	N	017	Joh ST	EEL,	437700	7601			
PHOTO REQUIRED	Y	(N)								
CORRECT REF # TO LINK CERT	(N)	N	PANUL	891	***					
CORRECT MATERIAL IDENTFICATION	(V)	N	1 00 10							
CORRECT M# ON THE MATERIAL	O	N								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ									
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N N								
CUT SAMPLE PIECE				ND PREFO		RDNESS	CHECK.			
			HRC	HRB	DUR	A	DUR D	WEBSTER		
TYPE OF MATERIAL										
SIZE OF TEST SAMPLE										
HARDNESS / DUROMETER READIN	1G									
	te	sters	located in	the Quality O	ffice					

ENGINEERING SIGNOFF (if required)
SIGNED OFF BY:
DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in